Work Order ID 95512

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January-10-13 11:04:08 AM Item ID: D3176-3 Accept \*N900040100\* Setup Start **Revision ID:** Item Name: Nut **Start Date: Start Qty: 14.00** 1/10/13 **Cust Item ID:** Required Date: 1/24/13 Req'd Qty: 14.00 **Customer:** Reference: Run Process Plan: 405 Date: 13-01-10 Tooling: Approvals: Date: Stop QC: \_\_\_\_\_ Date: \_\_\_\_ SPC (Y/N): Date: Sequence ID/ Operation Set Up/ Tool ID Tool # Plan Reject Accept Reject Insp. **Work Center ID** Description Run Hours Code Otv **Qty** Number Stamp Draw Nbr **Revision Nbr** D3176 Rev A 100 Hardinge ONC LAPHE SMALL \*100\* Hardinge Hardinge CNC Lathe Small 1-Turn as per Folio FA286 & DWG D31762-Deburr LOOSAN 110 QC2-Inspect parts off machine FAI/FAIB \*110\* QC 0.00 Memo Quality Control 120 0.00 CONVENTIONAL MILLING MACHINE \*120\* Mill Conv 0.00 Conventional Milling Machine 1- Mill flats as per dwg D31762- Deburr

									DQA:	Date:			
NCR: Ye	es / No				WORK ORDER NON-O		QA Closed:	Date:					
Work Order:					DISPOSITION	_	AGAINST DEPARTMENT/PROCESS						
Part No.			Rework Scrap Use-as-is	]   '	Skid-tube Crosstub  Machining Small Fa  Thermoforming Finishin		Water Jet Prod. Eng. Coor. Rec/Store/Packaging		Engineering Quality Other				
NCR No	o			· · · · · · · · · · · · · · · · · · ·	Work Order Update								
Root				Descri	ption of work order update	Initial	Ac	tion	Sign &				
Cause	Date	Step	Qty		or Non-conformance	Chief Eng	Desc	ription	Date	Verification	QC Inspector		
Doc/Data													
Equip/Tooling													
Operator		1											
Material													

## **FAULT CATEGORY Landing Gear** General Bending Bend Grain Ovalized Pressure/Forced Centre Not Concentric to O/S BOM/Route Hardware Over/Under tolerance Temperature/Cure Cracks Broken/Damaged Inspection Incomplete Part Incorrect Weld Crushed/Crimped. Wrong Stock Pulled Burrs Instructions Incomplete/Unclear Part Lost/Missing Cuffs Contamination Maintenance Part Moved Mislabeled Heat Treat Countersink Positioned Wrong Inspection Strip in Tube Misread Other Cut Too Short Power Loss/Surge Ripples in Bend Drill Holes Offset Torque Waves in Extrusion Drawing Out of Calibration Turning Sequence Finish Out of Sequence Wave/Twist in Tube Folio Outside Dimensions

Setup
Other
Process
Supplier
Training
Unapproved

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

\*150\* Packaging

Packaging

Page 2 January-10-13 11:04:08 AM Item ID: D3176-3 Accept \*N900040100\* Setup Start **Revision ID:** Item Name: Nut Start Date: 1/10/13 **Start Oty: 14.00** \*14\* **Cust Item ID:** Required Date: 1/24/13 Req'd Otv: 14.00 **Customer:** Reference: Run Process Plan: Approvals: Date: \_\_\_\_\_\_ Tooling: Date: Stop Date: SPC (Y/N): Date: Sequence ID/ Operation Tool # Plan Set Up/ Tool ID Accept Reject Reject Insp. Work Center ID Description Run Hours Code Otv Qty Number Stamp 130 QC2- Inspect parts off machine FAI/FAIB \*130\* OC. 0.00 Memo Quality Control 140 QC8- Inspect parts - second check 0.00 SAC \*140\* 13/03/11 QC Memo 0.00 Quality Control 150 Identify as per dwg & Stock Location 0.00

0.00

Memo

										QA Closea:	Date		
Work Orde	er:				DISPOSITION		AGAINST DEPARTMENT/PROCESS						
Part No.  NCR No.					Rework Scrap Use-as-is Work Order Update		Skid-tube Crosstube  Machining Small Fab  Thermoforming Finishing  Large Fab Composite			Water Jet Prod. Eng. Coor. Rec/Store/Packaging Supplier		Engineering Quality Other	
				T						<del>-</del>			
Root				l	ption of work order update	1	itial		tion	Sign &			
Cause	Date	Step	Qty		or Non-conformance	Chie	ef Eng	Desc	cription	Date	Verification	QC Inspector	
Doc/Data													
Equip/Tooling	-												
Operator Material	_						1						
Setup							į						
Other													
Process	-	1											
Supplier	-											,	
Training	$\dashv$												
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- Independent			I			AULT	CATE	L GORY			<u> </u>		
Landir	ng Gear		•		General								
]	Bending				Bend	П	arain			Ovalized	Г	Pressure/Forced	
		lot Conce	ntric to	o/s	BOM/Route	$\mathbf{H}$	lardwa	re	-	Over/Under	tolerance	Temperature/Cure	
	Cracks				Broken/Damaged		nspecti	on Incomplete		Part Incorre	_	-   Weld	
	Crushed	/Crimped.			Burrs		nstruct	ions Incomplete/	'Unclear	Part Lost/Mi	issing	Wrong Stock Pulled	
	Cuffs				Contamination		√lainte	nance		Part Moved		_ ~	
	Heat Treat			Countersink	$\square$	∕Iislabe	led		Positioned V	Vrong			
Inspection Strip in Tube			Cut Too Short		∕lisread	i		Power Loss/	Surge	Other			
	Ripples in Bend			Drill Holes		Offset				<u> </u>			
[	Torque Waves in Extrusion			Drawing		Out of Calibration							
	Turning Sequence				Finish		Out of Sequence						
	Wave/Twist in Tube				Folio		)utside	Dimensions					

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January-10-13 11:04:08 AM

\*95512\*

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D3176-3 Item ID: Accept \*N900040100\* Setup Start Revision ID: Item Name: Nut **Start Date:** 1/10/13 **Start Oty: 14.00 Cust Item ID:** Required Date: 1/24/13 Reg'd Otv: 14.00 **Customer:** Reference: Run Process Plan: Date: Tooling: Approvals: Date: Stop Date: SPC (Y/N): Date: Sequence ID/ Operation Set Up/ Tool ID Tool # Plan Accept Reject Reject Insp. **Work Center ID** Description **Run Hours** Code Oty Otv Number Stamp 160 QC21- Final Inspection - Work Order Release 0.00 \*160\* OC 0.00 Memo Quality Control

PLB-63-12/

		DQA:	Date:	
JCR: Yes / No	WORK ORDER NON-CONFORMANCE / UPDATE			

											QA Closed:	Date	2:
Work Orde	er:					DISPOSITION				AGAINST DE	PARTMENT	PROCESS	
Part No				Rework Scrap Use-as-is Work Order Update			Skid-tube  Machining  noforming  Large Fab	Crosstube Small Fab Finishing Composite	Pro Rec/Stor	Engineering Quality Other			
Root					Descri	ption of work order update		nitial	Ac	tion	Sign &		
Cause		Date	Step	Qty		or Non-conformance	Ch	ief Eng	Desc	ription	Date	Verification	QC Inspector
Doc/Data													
Equip/Tooling													
Operator											·		
Material	Ш												
Setup	Ш												
Other	Ш												
Process	Щ												
Supplier	Ш												
Training													
Unapproved												i	<u> </u>
		· ····					AUL	T CATE	GORY				
Landi	$\overline{}$	ı				General		Ì			7	_	_
	$\vdash$	Bending			_	Bend	$\vdash$	Grain		<u> </u>	Ovalized	<u> </u>	Pressure/Forced
	-	Centre No	ot Concer	ntric to	o/s  _	BOM/Route	$\vdash$	Hardwa		<u> </u>	Over/Under	<u> </u>	Temperature/Cure
	Н	Cracks			_	Broken/Damaged	-	-	ion Incomplete		Part Incorre	<b>-</b>	Weld
	${oldsymbol{ o}}$	Crushed/	Crimped.			Burrs	-		ions Incomplete/	Unclear	Part Lost/Mi	ssing	Wrong Stock Pulled
	<b>⊢</b>				Contamination	-	Mainte			Part Moved			
	Heat Treat			Countersink	-	Mislabe			Positioned V	_	<del></del> 1		
Inspection Strip in Tube Cut Too Short				4		Misread	d		Power Loss/	Surge	Other		
Ripples in Bend Drill Holes				$\vdash$	Offset								
Torque Waves in Extrusion Drawing				1	-		Calibration						
	Ш	Turning S			ļ	Finish	$\vdash$		Sequence				
1	Wave/Twist in Tube   Folio				IFolio	1	Outside	Dimensions					

## **Picklist Print**

January-10-13 11:04:12 AM

Work Order ID: 95512

D3176-3

Parent Item Name: Nut

\*95512\*

\*D3176-3\*

**Start Date:** 1/10/13

Required Date: 1/24/13

**Start Qty: 14.00** 

Required Qty: 14.00

**Comments:** 

Parent Item:

IPP Rev:B Removed -1

05-11-29 JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch		rimary ocation	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
M303R1.000		Purchased	No			100	f	45.5589	0.05	0.736842			
*M303R1	<b>^^^</b>								**				

\*M303R1 000\*

303 Round Bar 1.00

Location	Loc Qty	Loc Code	3.3.10
MAT028	45.55891579		
120866	1.4		
121070	6.63031579		
121282	0.9		<del></del>
121728	3.034		
122386	14.926		
123294	18.6686		
124711			, 875

											DQA:	Date:	
NCR:	Yes	/ No				WORK ORDER NON-CONFORMANCE / UPDATE							· -
											QA Closed:	Date:	
Work Ord	lor:					DISPOSITION				AGAINST DE	PARTMENT	/PROCESS	
Work Ord	IC1.	<del></del>				Rework	1		Skid-tube	Crosstube	1	Water Jet	Engineering
Part	No.					Scrap	1	į.	Machining	Small Fab	Pro	d. Eng. Coor.	Quality
:		· · · · · · · · · · · · · · · · · · ·				Use-as-is	1	l .	noforming	Finishing	4	re/Packaging	Other
NCR	No.					Work Order Update			Large Fab	Composite	1	Supplier	
			,	, ,							- 	<u></u>	
Root						ption of work order update	1	Initial		ction	Sign &		
Cause		Date	Step	Qty		or Non-conformance	Ch	ief Eng	Desc	cription	Date	Verification	QC Inspector
Doc/Data	-												
Equip/Tooling													
Operator	L												
Material	$\vdash$												
Setup													
Other	_								·				
Process													
Supplier													
Training													
Unapproved	<u> </u>		l										
ļ							AUL	T CATE	GORY				
Land	ing (	1				General		1			7	_	7
Bending Bend					4	<u> </u>	Grain			Ovalized		Pressure/Forced	
Centre Not Concentric to O/S				BOM/Route	$\vdash$	Hardwa			Over/Under	<del></del>	Temperature/Cure		
·				Broken/Damaged	<u> </u>		or Incomplete		Part Incorre	<del>}</del>	Weld		
1 1 1				Burrs	<u></u>	1	ions Incomplete,	/Unclear	Part Lost/M	ssing	Wrong Stock Pulled		
1	<u>_</u>	Cuffs				Contamination		Mainte			Part Moved		
	Heat Treat Counte					Countersink		Mislabeled			Positioned \	Vrong	-
1	Inspection Strip in Tube Cut Too Short					Cut Too Short	Misread				Power Loss/	Surge	Other

Offset

Out of Calibration

Out of Sequence

Outside Dimensions

Ripples in Bend

Turning Sequence

Wave/Twist in Tube

Torque Waves in Extrusion

Drill Holes

Drawing

Finish

Folio

<sup>·</sup>H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

DART AEROSPACE LTD	Work Order:	95512
Description: Nut	Part Number:	D3176-3
Inspection Dwg: D3176 Rev: A		Page 1 of 1

FIRST ARTICLE INSPECTION CHECKLIST								
	X	First Arti	cle	Pro	totype			
Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection		omments	
Ø0.990	+/-0.010	- 98f			20 -5	2_		
0.130	+/-0.010	. 129						
R0.005-0.015	+/-0.000	.615		-				
0.594	+/-0.010	- 594						
0.745	+0.005/-0.000	. 747						
5/8-UNF18-3B	<del>-N/A</del>	-N/A						
minor	-5650/.5739	, 567						
I form max		,			Go No a	ø		
1 firm Max No" Go GAGE		1/4 pm			GAGE			
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	2AQ							
Measured by:	~ ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °	Audited by:	JA . D	<b>S</b> P	rototype Ap <sub>l</sub>	oroval:	N/A	
Date:	13.3.10	Date:	3/03/11 %	89		Date:	N/A	
	Change		- 1		F	Revised, by	Approved	
A 03.11.12	New Issue				K	J/RF	14	

